

**FUNCTIONAL INDEPENDENCE MATHEMATICS
EXTENDED GRADE LEVEL CONTENT EXPECTATIONS
GRADE 8**

<p style="text-align: center;">Grade 8</p> <p style="text-align: center;">Extended Grade Level Content Expectation (EGLCE)</p>	<p style="text-align: center;">Level Assessed</p> <p style="text-align: center;">Classroom/LEA/ISD and/or State</p>
NUMBERS AND OPERATIONS	
Topic 1: Count, write and order whole numbers	
<p>N.ME.08.EG01 Read, write and count using whole numbers to 100,000 in numerals and words, and relate them to the quantities they represent.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p>N.ME.08.EG02 Explore and recognize equivalent representations for whole numbers to 100,000.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p>N.ME.08.EG03 Express numbers to 100,000 using place value.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p>N.ME.08.EG04 Order numbers to 100,000; compare whole numbers using phrases such as same as, more than, greater than, fewer than, and use = symbol.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p>N.ME.08.EG05 Round whole number to the nearest one, ten, hundred or thousand.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p>N.MR.08.EG06 Create, describe, and extend simple number patterns, including patterns that involve data.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p>N.MR.08.EG07 Explain how to find the next number in a simple repeating pattern.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>

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Topic 2: Compute with whole numbers	
N.FL.08.EG08 Add and subtract one–, two– and three–digit numbers, written in words or numerals, with regrouping.	Classroom/LEA/ISD and State
N.FL.08.EG09 Multiply and divide simple whole numbers up to and including 3 digits by 2 digits.	Classroom/LEA/ISD and State
N.MR.08.EG11 Solve simple open sentences for addition, subtraction, multiplication and division.	Classroom/LEA/ISD and State
N.MR.08.EG12 Select appropriate numbers in order to solve problems involving addition and subtraction and solve.	Classroom/LEA/ISD and State
N.MR.08.EG13 Understand and apply order of operations for simple expressions containing more than one operation.	Classroom/LEA/ISD and State

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Topic 3: Fractions and Decimals	
N.ME.08.EG14 Recognize, name, represent and write fractions with denominators of 100 or less.	Classroom/LEA/ISD and State
N.MR.08.EG15 Compare and order fractions within fraction families with denominators of 12 or less.	Classroom/LEA/ISD and State
N.MR.08.EG16 Know that fractions of the form $\frac{m}{n}$, where m is greater than n, are greater than 1 and are called improper fractions; locate improper fractions on the number line; express as mixed numbers.	Classroom/LEA/ISD and State
N.MR.08.EG17 Write improper fractions as mixed numbers, and understand that a mixed number represents the number of “wholes” and the part of a whole remaining, e.g., $\frac{5}{4} = 1 + \frac{1}{4} = 1\frac{1}{4}$.	Classroom/LEA/ISD and State
N.MR.08.EG18 Add and subtract fractions less than 1 with denominators 12 or less and including 100, in cases where the denominators are equal or when one denominator is a multiple of the other; e.g., $\frac{1}{12} + \frac{5}{12} = \frac{6}{12}$; $\frac{1}{6} + \frac{5}{12} = \frac{7}{12}$; $\frac{3}{10} - \frac{23}{100} = \frac{7}{100}$.	Classroom/LEA/ISD and State
N.FL.08.EG19 Solve fraction problems involving sums and differences for fractions where one denominator is a multiple of the other (denominators 2 through 12, and 100).	Classroom/LEA/ISD and State
N.ME.08.EG20 Express fraction ratios in several ways, given applied situations, e.g., 3 cups to 5 people, 3 : 5, 3/5; recognize and find equivalent ratios.	Classroom/LEA/ISD and State

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<p>N.ME.08.EG21 Round money to the nearest dollar or ten dollars.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p>N.ME.08.EG22 Add, subtract, multiply and divide decimal fractions in relation to money in applied situations, up to \$500.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p style="text-align: center;">Topic 4: Problem solving and estimation</p>	
<p>N.FL.08.EG23 Apply estimation in solving problems involving addition, subtraction, multiplication or division.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p>N.MR.08.EG24 Select appropriate numbers in order to solve problems, write number sentences and solve.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p>N.MR.08.EG25 Solve applied problems involving the four basic arithmetic operations for whole numbers and fractions.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p style="text-align: center;">ALGEBRA</p>	
<p style="text-align: center;">Topic 1: Expressions and equations</p>	
<p>A.FO.08.EG01 Identify the unknown quantity in an applied problem.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>
<p>A.FO.08.EG02 Represent information given in words using algebraic expressions and equations.</p>	<p style="text-align: center;">Classroom/LEA/ISD and State</p>

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MEASUREMENT	
Topic 1: Measure and use units	
M.UN.08.EG01 Select and use standard tools for measurement of length, time, weight, volume and temperature.	Classroom/LEA/ISD and State
M.UN.08.EG02 Select appropriate units of measure for length, time, weight, area, volume and temperature (degrees Fahrenheit, °F, only) for a given context.	Classroom/LEA/ISD and State
M.UN.07.EG03 Measure and compare integer temperatures in degrees (degrees Fahrenheit, °F, only).	Classroom/LEA/ISD and State
M.UN.08.EG04 Measure lengths to the nearest quarter–inch using a ruler.	Classroom/LEA/ISD and State
M.UN.08.EG05 Measure area by counting squares on a grid for rectangular shapes.	Classroom/LEA/ISD
M.UN.08.EG06 Measure volume by counting blocks that fit into a rectangular prism.	Classroom/LEA/ISD
M.UN.08.EG07 Measure the distance around a rectangle (perimeter).	Classroom/LEA/ISD and State
M.UN.08.EG08 Convert one unit of measure to a larger or smaller unit of measure, given the conversion factor.	Classroom/LEA/ISD and State

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M.UN.08.EG09 Tell time on a twelve-hour radial clock or digital clock to the nearest half-hour. Address A.M. and P.M. Add or subtract multiples of 5 minutes.	Classroom/LEA/ISD and State
M.UN.08.EG10 Use a calendar and use equivalent calendar units.	Classroom/LEA/ISD and State
M.PS.08.EG11 Solve one- or two-step word problems using addition and subtraction of length, time, weight, area, volume or temperature.	Classroom/LEA/ISD and State
Topic 2: Money	
M.UN.08.EG12 Recognize equivalent sets of coins and bills.	Classroom/LEA/ISD and State
M.PS.08.EG13 Tell the amount of money in dollars and cents up to and including \$100. Use the symbols \$ and ¢.	Classroom/LEA/ISD and State
M.PS.08.EG14 Add and subtract money in dollars and cents, and combinations of dollars and cents, up to and including \$100.	Classroom/LEA/ISD and State

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GEOMETRY	
Topic 1: Identify and describe shapes	
<p>G.LO.08.EG01 Describe and use relative position of objects on a plane and in space using words such as above, below, over, under, behind, in front of, right, left.</p>	<p>Classroom/LEA/ISD and State</p>
Topic 2: Use maps and grids	
<p>G.LO.08.EG02 Find and name locations using simple coordinate systems such as maps and first quadrant grids.</p>	<p>Classroom/LEA/ISD and State</p>
<p>G.LO.08.EG03 Read, interpret and use maps and grids with legends, landmarks and city blocks. Follow and give directions such as north, south, east and west and directional turns such as left and right.</p>	<p>Classroom/LEA/ISD and State</p>

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DATA ANALYSIS	
Topic 1: Explore Data	
D.RE.08.EG01 Read and interpret data from charts, tables, bar graphs, circle graphs, tallies, pictographs and line graphs.	Classroom/LEA/ISD and State
D.RE.08.EG02 Construct tables, graphs and charts from given data.	Classroom/LEA/ISD
D.RE.08.EG03 Draw, explain and justify predictions and conclusions from data presented in tables, graphs and charts.	Classroom/LEA/ISD and State
D.RE.08.EG04 Describe the shape of data using informal language, e.g. increasing, decreasing.	Classroom/LEA/ISD and State
D.RE.08.EG05 Solve problems using data presented in tables, charts, bar graphs, circle graphs, tallies, pictographs, and line graphs, including graphs and charts that have more than one set of data.	Classroom/LEA/ISD and State